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செப்பனிடுபவர் பெயர் N. பெருமாள்

செப்பனிடுவதற்காக எடுக்கப்பட்ட நாள் 8/2004

செப்பனிட்டு முடிக்க நாள் 8/2004

சரிபார்க்கும் முதல் மு.பா.எ. கையொப்பம்

சரிபார்க்கும் இரண்டாம் மு.பா.எ. கையொப்பம்

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GOVERNMENT CENTRAL MUSEUM, COLLEGE OF FORT ST. GEORGE,

MADRAS, 1st *February* 1854.

From

SURGEON EDWARD BALFOUR,

In Charge of the Government Central Museum.

To

SIR,

In my Circular letter of the 1st ultimo, which I again beg to give in the margin, I

GOVERNMENT CENTRAL MUSEUM, COLLEGE OF FORT ST. GEORGE,

MADRAS, 1st *January*, 1854.

From

SURGEON EDWARD BALFOUR,

To *In Charge of the Government Central Museum.*

SIR,

In my Circular letter of the 4th October last, I solicited your attention to the pro[illegible]ss of the Government Central Museum as detailed in my letter to Government which [illegible]inted with the *Fort St. George Gazette* of the 13th September 1853; and while I begg[illegible]d to continue your aid to the Museum generally, in whatever mode it might be most [illegible]on-venient for you to do so, I asked you to favor me with specimens of all the M[illegible] the Province which you are residing in, to enable me to report on them, and this req[illegible]st has been so liberally responded to, that I have been able to send to Government a very full report on the Marbles of the Madras Presidency.

The products which I would wish should form the subject of my next Report to Government are the various Ores of Iron in the Presidency, and the Iron and Steel prepared from them; and, to enable me to make as full a report as possible, I solicit you to favor me with specimens of all the Ores of Iron and the Iron manufactured from them, which are to be obtained in the district you are residing in, stating whether the Ores are worked or not; stating the abundance and the cost of the raw materials, and [illegible]any information in your power to give regarding the processes of bringing them into the f[illegible]m of Iron and Steel, and the prices at which these are sold;—also the names of all the places in your district where Iron Ores are to be had, and the names of all the places where they are smelted—and, as my next Report will be dated 30th June 1854, I solicit your early aid.

I have the honor to be,

Sir,

Your most obedient Servant,

EDWARD BALFOUR, *Surgeon,*

In Charge of the Government Central Museum.

[illegible]ught to your [illegible]ice my wish to [illegible]t on the Iron [illegible]res of the Ma-[illegible]d Presidency, [illegible]d on the Iron and Steel produced from them;—and, aware of the extent of the subject which I have undertaken to report upon, and of its vast importance to the best interests of this Country, I have thought it advisable, again, to submit my request for your assistance and to [illegible]t you to afford me any aid in your power.

Buchanan, Heyne, Malcolmson, and Voysey in the works as per margin, have given descriptions of the modes of manufacturing the Iron Ores of Rajahmundry, Mysore, and Hyderabad, and it would be useful to know [illegible] ocesses described by them, be still followed. I [illegible] also, queries on other points, regarding which [illegible] be highly desirable to obtain information and I [illegible] you to favor me with information on such of those points as you may have it in your power to give,—and with copies of any written or printed papers, having reference to the Iron Ores of Southern India which you may think would be useful to me, in drawing up my report.

Asiatic Society of Bengal—Journal.
Buchanan's Mysore.
Dalrymple's Repository.
Heyne's Tracts on India.
Madras Literary Society's Journal.
Royal Geological Society's Transactions.

The information asked for in the following questions would be of important service to me.

1. What is the name of each site in each Talook of your district where Iron Ore, whether mined or not, exists, and favor me with any information you may possess as to its abundance and with specimens of the Ore from each site?

2. What is the name of each site where the Iron Ore is mined or extracted, what quantity of Ore can be collected by one man in one day, and the process of collecting, and state whether [illegible] on the spot, or sent to any other, and what place to be smelted?

3. [illegible] name of each site where a furnace exists, with drawings or plans of the furnaces and [illegible] aratus employed in smelting the Ore and working the Iron; also favor me with an estim[illegible]e expense of erecting a furnace, and of the cost per month of working it; also with th[illegible]y by weight of Ore that one furnace contains?

4. [illegible] favor me with the names of the Talooks and Villages where Iron is produced in most [illegible] nd state the quantity and kinds of Iron produced yearly in the whole Collectorate and then selling price; also the quantity of Iron exported from the Collectorate and places to which [illegible]s sent?

5. W[illegible]escriptions of Iron and Steel are manufactured; and can you favor me with information as t[illegible] pro[illegible]s by which the Ore is converted into metallic Iron and this into the commodity sent to the m[illegible]nd with specimens of the Iron and Steel from each furnace and forge.

6. What q[illegible]ron is imported into the Collectorate, the places it is brought from, its selling price, an[illegible]urposes it is applied to?

7. Can you send me the names of, and samples of all the tools and implements, &c., manufactured in the district, from the Iron of the district, with the selling price of each implement?

8. If Iron be not now manufactured in your district, can you state whether it was so in former times, and, if so, why the art has ceased to be practised?

9. Where is the Charcoal, which is employed in smelting the Ore, brought from; at what price is the Charcoal sold, at the furnaces, and what quantity of Charcoal is expended for one smelting?

10. Are the forests in the neighbourhood extensive; a[illegible]ney diminishing in extent or otherwise, and what amount of Charcoal can be made by one man [illegible] one day?

11. Do the blacksmiths, in your district, prefer Indian [illegible] English Iron; and what reason do they give fo[illegible] their preference of either?

12. What is the daily wages of a blacksmith in the district you are in?

13. Could you propose any simple improvement on the methods now adopted by the Native manufacturers with a view to cheapen the cost of production;—either,

(*a*) by facilitating the excavation of the Ore from the mine; or

(*b*) bringing the Ore from the mine to the furnace; or

(*c*) facilitating the preparation of the Charcoal, with less waste; or

(*d*) in bringing it to the furnace; or

(*e*) in the structure of the bellows, hammer, or other simple implements; or

(*f*) in producing from a given quantity of Ore, a larger quantity of metallic Iron; or

(*g*) in the construction of roads to the mines or to the forest, where the Charcoal is prepared.

14. What quantity of metallic Iron is produced from one smelting, which, with the last part of question 3 will show how many pounds weight of metallic Iron is produced from 100 pounds weight of the Ore?

15. What quantity of this metallic Iron is lost in the processes of preparing bar-iron from it.

I have the honor to be,

Sir,

Your most obedient servant,

EDWARD BALFOUR, *Surgeon*,

In Charge of the Government Central Museum.

ATHENÆUM PRESS.

Dear Sir

You will have seen from Minutes of Consultation dated August 21st 1856, that the Right Honble the Governor has been pleased to authorize me to form a complete collection of all the Oils and Oleaginous substances of this part of India: and it is with the desire of executing this trust in the widest & most perfect manner that I now take the liberty of requesting your aid and co-operation in forwarding so desirable a subject of inquiry.

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My plan (approved of by the Rt Honble the Gov.) is to form a complete collection (in duplicate) of every oil and oleaginous substance the produce of the Madras Territories and Burmah, each collection to be accompanied by samples of the seed, nut, fruit, flower, wood or other substance from which each oil is extracted.

It is proposed that one set should be kept in the Madras Museum for inspection and reference, and all such information as appears to be necessary and report on the fitness of each oil for use in the Arts, Sciences, Medicine, &c &c. These results to be published both in England and India for general information.

It is moreover intended to treat the subject in all its bearings, and it is confidently anticipated that with the assistance and cooperation of the Civil and Military Authorities, specimens of every oleaginous product of this Presidency, will now for the first time be brought together, and made hereafter usefully useful in increasing the general knowledge of the capabilities of this Country.

Having thus given a rough sketch of the plan on which the collection will be formed, I would beg to suggest that you would cause to be made a collection of samples (each containing from 4 to 8 ounces) of every seed, fruit, flower &c yielding oil which is produced within your Limits, with a full description of the oil.

Excepting the seed

readily available in the English or Vernacular Language

In order to render your assistance productive of as little tax upon your valuable time as will be consistent with the freedom from obligation, and also the identity of the specimens sent, I have prepared the accompanying Lists with a few explanatory notes thereto, which I trust will be found sufficient for the purpose. Regarding the Timbers, it is desirable to send specimens of the wood, the foliage, the fruit or seed as from which they are obtained, should invariably accompany them.

Two copies of a List of the specimens of Indian timber which is enclosed, and it is requested that the blank columns of one of the copies may be filled up and the list returned. Any new species of timber should be added to the list.

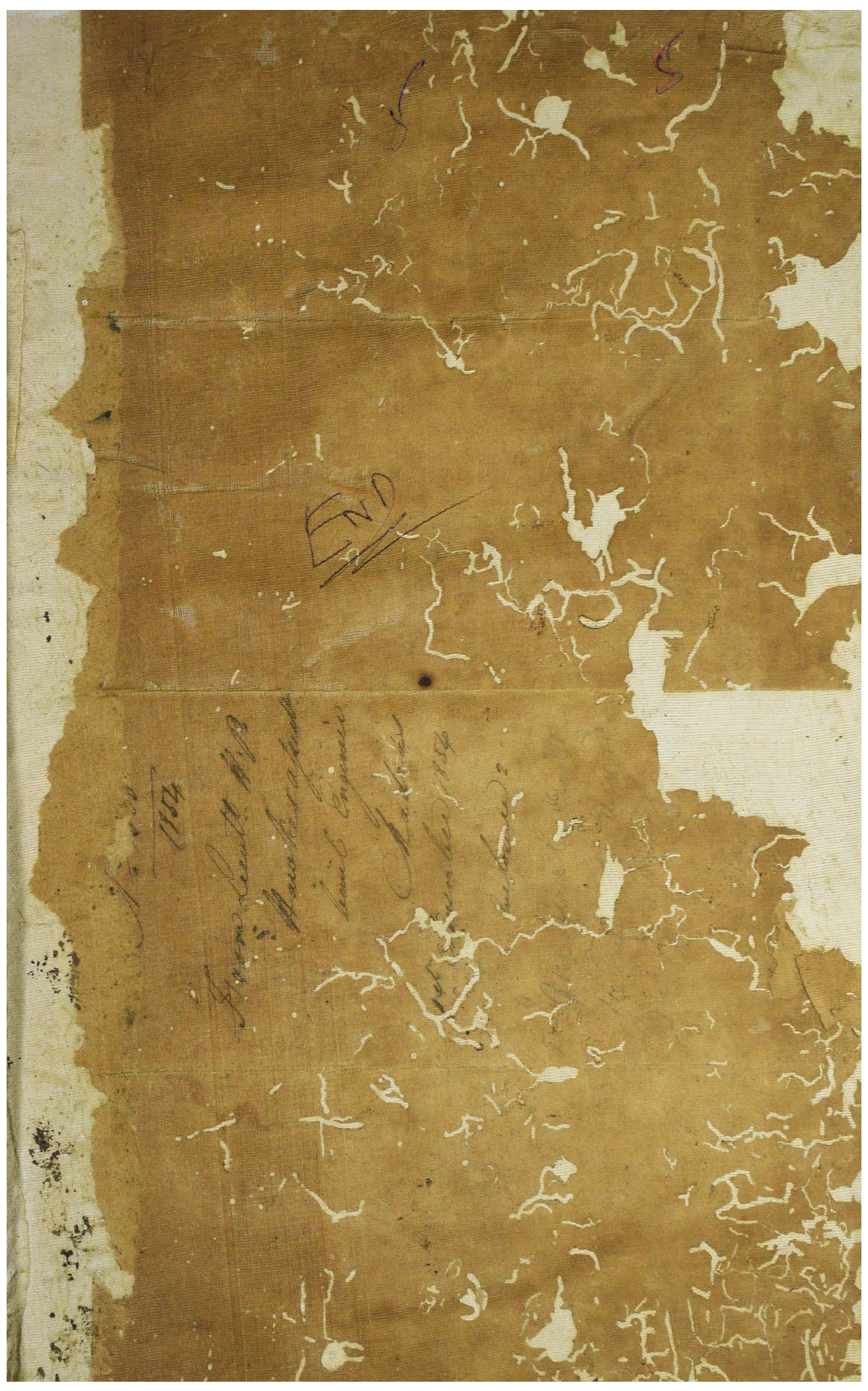
Translations of this List in the vernacular languages would be circulated to perhaps a greater advantage.

As it is desirable that the Madras Collection should be exhibited at the Exhibition of Arts, Manufactures & produce to be held in the Kensington Hall in February 1855 you will perceive the urgent necessity of as speedy a transmission of the specimens as possible.

I would conclude by observing that any further information or assistance on this subject will be thankfully acknowledged by

Dear Sir
Your very faithfully
W. Hawkes Lieutenant
Asst. Civil Engineer

Fort St George.
1st Novr 1854.



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